CLINICAL AND EXPERIMENTAL IMMUNOLOGY

CONTENTS

Vol 109 No 1 July 1997

J. B. WINFIELD: Are anti-ribosomal P protein antibodies a type of anti-lymphocyte antibody? 1

M. GATTORNO, P. FACCHETTI, F. GHIOTTO, S. VIGNOLA, A. BUONCOMPAGNI, I. PRIGIONE, P. PICCO & V. PISTOIA: Synovial fluid T cell clones from oligoarticular juvenile arthritis patients display a prevalent Th1/Th0-type pattern of cytokine secretion irrespective of immunophenotype 4

H. A. STAFFORD, A. E. CHEN, C. J. ANDERSON, A. G. A. PAUL, E. L. WYATT, L. A. LEE & B. R. NEAS: Anti-ribosomal and 'P-peptide'-specific autoantibodies bind to T lymphocytes 12

T. TAKEUCHI, M. PANG, K. AMANO, J. KOIDE & T. ABE: Reduced protein tyrosine phosphatase (PTPase) activity of CD45 on peripheral blood lymphocytes in patients with systemic lupus erythematosus (SLE) 20

Z.-Q. WU, D. DRAYTON & D. S. PISETSKY: Specificity and immunochemical properties of antibodies to bacterial DNA in sera of normal human subjects and patients with systemic lupus erythematosus (SLE) 27

S. A. RUTJES, W. T. M. VREE EGBERTS, P. JONGEN, F. VAN DEN HOOGEN, G. J. M. PRUIJN & W. J. VAN VENROOIJ: Anti-Ro52 antibodies frequently co-occur with anti-Jo-1 antibodies in sera from patients with idiopathic inflammatory myopathy 32

H. KANEKO, T. HISHIKAWA, I. SEKIGAWA, H. HASHIMOTO, K. OKUMURA & Y. KANEKO: Role of tumour necrosis factor-alpha (TNF-α) in the induction of HIV-1 gp120-mediated $CD4^+$ T cell anergy 41

O. CARTRY, P. MOJA, A. QUESNEL, B. POZZETTO, F. R. LUCHT & C. GENIN: Quantification of IgA and IgG and specificities of antibodies to viral proteins in parotid saliva at different stages of HIV-1 infection 47

K.-A. KREUZER, J.-M. DAYER, J. K. ROCKSTROH, T. SAUERBRUCH & U. SPENGLER: The IL-1 system in HIV infection: peripheral concentrations of IL-1β, IL-1 receptor antagonist and soluble IL-1 receptor type II 54

K. IMADA, Y. FUKUDA, Y. KOYAMA, I. NAKANO, M. YAMADA, Y. KATANO & T. HAYAKAWA: Naive and memory T cell infiltrates in chronic hepatitis C: phenotypic changes with interferon treatment 59

S. A. MISBAH, H. GRIFFITHS, T. MITCHELL, A. FREELAND, M. R. HAENEY & H. M. CHAPEL: Antipolysaccharide antibodies in 450 children with otitis media 67

R. SHIRAI, J. KADOTA, T. TOMONO, K. OGAWA, K. IIDA, K. KAWAKAMI & S. KOHNO: Protective effect of granulocyte colony-stimulating factor (G-CSF) in a granulocytopenic mouse model of *Pseudomonas aeruginosa* lung infection through enhanced phagocytosis and killing by alveolar macrophages through priming tumour necrosis factor-alpha (TNF-α) production 73

V. FALCONE & F. COLLINS: Growth of recombinant *Mycobacterium tuberculosis* H37Ra in mouse macrophages 80

G. ELGHAZALI, H. PERLMANN, A. S. M. RUTTA, P. PERLMANN & M. TROYE-BLOMBERG: Elevated plasma levels of IgE in *Plasmodium falciparum*-primed individuals reflect an increased ratio of IL-4 to interferon-gamma (IFN-γ)-producing cells 84

L. JENNE, J. KILWINSKI, W. SCHEFFOLD & P. KERN: IL-5 expressed by $CD4^+$ lymphocytes from *Echinococcus multilocularis*-infected patients 90

M. SOSPEDRA, E. TOLOSA, P. ARMENGOL, Y. ASHHAB, S. URLINGER, A. LUCAS-MARTIN, M. FOZ-SALA, D. JARAQUEMADA & R. PUJOL-BORRELL: Hyperexpression of transporter in antigen processing-1 (TAP-1) in thyroid glands affected by autoimmunity: a contributory factor to the breach of tolerance to thyroid antigens? 98

M. MARAZUELA, M. O. DE LANDÁZURI, E. LARRAÑAGA & F. SÁNCHEZ-MADRID: Up-regulated β_1-integrin expression in autoimmune thyroid disorders 107

J. I. ELLIOTT, H. DEWCHAND & D. M. ALTMANN: Streptozotocin-induced diabetes in mice lacking $\alpha\beta$ T cells 116

A. BEN-SMITH, J. C. GOODALL, J. S. H. GASTON & J. B. WINER: Stimulation of peripheral blood lymphocytes with *Campylobacter jejuni* generates a $\gamma\delta$ T cell response in patients with Guillain–Barré syndrome 121

C. Y. TSAI, N. H. CHOW, T. S. HO & H. Y. LEI: Intracerebral injection of myelin basic protein (MBP) induces inflammation in brain and causes paraplegia in MBP-sensitized B6 mice 127

X. R. HUANG, P. G. TIPPING, J. APOSTOLOPOULOS, C. OETTINGER, M. D'SOUZA, G. MILTON & S. R. HOLDSWORTH: Mechanisms of T cell-induced glomerular injury in anti-glomerular basement membrane (GBM) glomerulonephritis in rats 134

YU. NATORI, M. SEKIGUCHI, Z. OU & YA. Natori: Gene expression of CC chemokines in experimental crescentic glomerulonephritis (CGN) 143

M. DOTH, M. FRICKE, F. NICOLETTI, G. GAROTTA, M.-L VAN VELTHUYSEN, J. A. BRUIJN & E. GLEICHMANN: Genetic differences in immune reactivity to mercuric chloride ($HgCl_2$): immunosuppression of $H\text{-}2^d$ mice is mediated by interferon-gamma (IFN-γ) 149

A. R. ZLOTTA, A. DROWART, K. HUYGEN, J. DE BRUYN, H. SHEKARSARAI, M. DECOCK, M. PIRSON, F. JURION, K. PALFLIET, O. DENIS, F. MUSCART, J. SIMON, C. C. SCHULMAN & J. P. VAN VOOREN: Humoral response against heat shock proteins and other mycobacterial antigens after intravesical treatment with bacille Calmette–Guérin (BCG) in patients with superficial bladder cancer 157

M. A. CLARK, N. J. HAWKINS, A. PAPAIOANNOU, R. J. FIDDES & R. L. WARD: Isolation of human anti-c-*erb*B-2 Fabs from a lymph node-derived phage display library 166

G. Bouma, M. Oudkerk Pool, J. B. A. Crusius, G. M. Th. Schreuder, H. P. R. Hellemans, B. U. G. A. Meijer, P. J. Kostense, M. J. Giphart, S. G. M. Meuwissen & A. S. Peña: Evidence for genetic heterogeneity in inflammatory bowel disease (IBD); HLA genes in the predisposition to suffer from ulcerative colitis (UC) and Crohn's disease (CD) 175

E. Kremmer, J. Mysliwietz & S. Thierfelder: Induction and suppression of anti-antibodies to syngeneic T cell-binding antibodies in mice 180

S. Kaneko, N. Suzuki, H. Koizumi, S. Yamamoto & T. Sakane: Rescue by cytokines of apoptotic cell death induced by IL-2 deprivation of human antigen-specific T cell clones 185

L. Juul, L. Hougs, V. Andersen, A. Svejgaard & T. Barington: The normally expressed κ immuno-globulin light chain gene repertoire and somatic mutations studied by single-sided specific polymerase chain reaction (PCR); frequent occurrence of features often assigned to autoimmunity 194

L. Liu, H. Elwing, A. Karlsson, G. Nimeri & C. Dahlgren: Surface-related triggering of the neutrophil respiratory burst. Characterization of the response induced by IgG adsorbed to hydrophilic and hydrophobic glass surfaces 204

N. Ronda, R. Gatti, G. Orlandini & A. Borghetti: Binding and internalization of human IgG by living cultured endothelial cells 211

H. J. Imrie & D. R. E. Jones: Complement coating of erythrocytes is reduced following their interaction with neutrophils *in vitro* without loss of complement receptor 1 (CR1) 217

Vol 109 No 2 August 1997

R. R. Blumberg, S. P. Colgan & S. P. Balk: CD1d: outside-in antigen presentation in the intestinal epithelium? 223

N. M. Peet, J. A. McKeating, B. Ramos, T. Klonisch, J. B. De Souza, P. J. Delves & T. Lund: Comparison of nucleic acid and protein immunization for induction of antibodies specific for HIV-1 gp120 226

A. Diab, J. Zhu, L. Lindquist, B. Wretlind, M. Bakhiet & H. Link: *Haemophilus influenzae* and *Streptococcus pneumoniae* induce different intracerebral mRNA cytokine patterns during the course of experimental bacterial meningitis 233

C. Monari, C. Retini, B. Palazzetti, F. Bistoni & A. Vecchiarelli: Regulatory role of exogenous IL-10 in the development of immune response *versus Cryptococcus neoformans* 242

H. Tomioka, K. Sato, C. Sano, T. Akaki, T. Shimizu, H. Kajitani & H. Saito: Effector molecules of the host defence mechanism against *Mycobacterium avium* complex: the evidence showing that reactive oxygen intermediates, reactive nitrogen intermediates, and free fatty acids each alone are not decisive in expression of macrophage antimicrobial activity against the parasites 248

S. A. Theus, A. G. Smulian, D. W. Sullivan & P. D. Walzer: Cytokine responses to the native and recombinant forms of the major surface glycoprotein of *Pneumocystis carinii* 255

M. F. Silva, A. L. Bocca, R. Ferracini jr, F. Figueiredo & C. L. Silva: Cellular requirements for immunomodulatory effects caused by cell wall components of *Paracoccidioides brasiliensis* on antibody production 261

F. Perosa, G. Luccarelli & F. Dammacco: Absence of streptococcal protein G (PG)-specific determinant in the Fab region of human IgG2 272

A. Afeltra, D. Caccavo, G. M. Ferri, M. A. Addessi, F. G. De Rosa, A. Amoroso & L. Bonomo: Expression of lactoferrin on human granulocytes: analysis with polyclonal and monoclonal antibodies 279

U. Specks, E. M. Wiegert & H. A. Homburger: Human mast cells expressing recombinant proteinase 3 (PR3) as substrate for clinical testing for anti-neutrophil cytoplasmic antibodies (ANCA) 286

L. Gerez, T. Shkolnik, O. Hirschmann, M. Lorber, G. Arad & R. Kaempfer: Hyperinducible expression of the interferon-gamma (IFN-γ) gene and its suppression in systemic lupus erythematosus (SLE) 296

J. Guerin, C. Feighery, R. B. Sim & J. Jackson: Antibodies to β2-glycoprotein I—a specific marker for the antiphospholipid syndrome 304

M. Walchner & M. Wick: Elevation of $CD8^+$ $CD11b^+$ $Leu\text{-}8^-$ T cells is associated with the humoral immunodeficiency in myeloma patients 310

K. Kasai, A. Matsuura, K. Kikuchi, Y. Hashimoto & S. Ichimiya: Localization of rat CD1 transcripts and protein in rat tissues—an analysis of rat CD1 expression by *in situ* hybridization and immunohistochemistry 317

A.-M. Engel, I. M. Svane, M. W. Madsen, M. Pedersen & O. Werdelin: Molecular aberrations in the MHC class I-restricted pathway for antigen presentation in methylcholanthrene sarcomas from nude mice: discrepancies between MHC mRNA and surface protein 323

N. Yamashita, M. Takeno, S. Kaneko, Y. Mizushima & T. Sakane: Therapeutic effects of preferential induction of mite-specific T helper 0 clones 332

M. Bonay, H. Echchakir, D. Lecossier, P. Lainé, D. Herman, A. J. Hance, P. Soler & A. Tazi: Characterization of proliferative responses and cytokine mRNA profiles induced by *Vespula* venom in patients with severe reactions to wasp stings 342

O. A. Alexeyev, M. Linderholm, F. Elgh, G. Wadell, P. Juto & A. Tärnvik: Increased plasma levels of soluble CD23 in haemorrhagic fever with renal syndrome; relation to virus-specific IgE 351

H. H. Donze, C. Lue, B. A. Julian, W. H. Kutteh, A. Kantele & J. Mestecky: Human peritoneal B-1 cells and the influence of continuous ambulatory peritoneal dialysis on peritoneal and peripheral blood mononuclear cell (PBMC) composition and immunoglobulin levels 356

A. Pappa, V. Calder, R. Ajjan, P. Fells, M. Ludgate, A. P. Weetman & S. Lightman: Analysis of extraocular muscle-infiltrating T cells in thyroid-associated ophthalmopathy (TAO) 362

S. R. Thurau, C.-C. Chan, R. B. Nussenblatt & R. R. Caspi: Oral tolerance in a murine model of relapsing experimental autoimmune uveoretinitis (EAU): induction of protective tolerance in primed animals 370

Y. R. Mahida, A. M. Galvin, T. Gray, S. Makh, M. E. McAlindon, H. F. Sewell & D. K. Podolsky: Migration

of human intestinal lamina propria lymphocytes, macrophages and eosinophils following the loss of surface epithelial cells 377

M. G. A. Van Dixhoorn, J. J. Timmerman, D. J. Van Gijlswijk-Janssen, Y. Muizert, C. Verweij, R. G. Discipio & M. R. Daha: Characterization of complement C6 deficiency in a PVG/c rat strain 387

Y. Kawaguchi, T. Okada, H. Konishi, M. Fujino, J. Asai & M. Ito: Reduction of the DTH response is related to morphological changes of Langerhans cells in mice exposed to acute immobilization stress 397

Vol 109 No 3 September 1997

P. J. W. Venables: Antibodies to Jo-1 and Ro-52: why do they go together? 403

M. Carlesimo, O. Pontesilli, A. R. Varani, M. L. Bernardi, A. M. Mazzone, R. Rosso, E. C. Guerra, A. Cassone, R. Paganelli & F. Aiuti: CD28 costimulation and T lymphocyte proliferative responses in HIV-1 infection 406

D. Brugnoni, P. Airo, S. Timpano, F. Malacarne, A. G. Ugazio, R. Cattaneo & M. Duse: $CD8^+CD28^-$ T cells in vertically HIV-infected children 412

S. Huiss, B. Damien, F. Schneider & C. P. Muller: Characteristics of asymptomatic secondary immune responses to measles virus in late convalescent donors 416

C. Li, J. M. Goodrich & X. Yang: Interferon-gamma (IFN-γ) regulates production of IL-10 and IL-12 in human herpesvirus-6 (HHV-6)-infected monocyte/macrophage lineage 421

A. Ishiguro, Y. Suzuki, Y. Inaba, K. Fukushima, A. Komiyama, H. P. Koeffler & T. Shimbo: The production of IL-8 in cerebrospinal fluid in aseptic meningitis of children 426

T. W. Jungi, B. Brcic, H. Sager, D. A. E. Dobbelaere, A. Furger & I. Roditi: Antagonistic effects of IL-4 and interferon-gamma (IFN-γ) on inducible nitric oxide synthase expression in bovine macrophages exposed to Gram-positive bacteria 431

K. H. O. Deane, R. M. Jecock, J. H. Pearce & J. S. H. Gaston: Identification and characterization of a DR4-restricted T cell epitope within chlamydia heat shock protein 60 439

J. Mehrotra, A. Mittal, M. Dhindsa & S. Sinha: Fractionation of mycobacterial integral membrane proteins by continuous elution SDS–PAGE reveals the immunodominance of low molecular weight subunits for human T cells 446

J. Corado, F. Toro, H. Rivera, N. E. Bianco, L. Deibis & J. B. De Sanctis: Impairment of natural killer (NK) cytotoxic activity in hepatitis C virus (HCV) infection 451

S. Kakumu, A. Okumura, T. Ishikawa, M. Yano, A. Enomoto, H. Nishimura, K. Yoshioka & Y. Yoshikai: Serum levels of IL-10, IL-15 and soluble tumour necrosis factor-alpha (TNF-α) receptors in type C chronic liver disease 458

E. Savilahti, T. Örmälä, A. Arato, G. Hacsek, K. Holm, T. Klemola, A. Nemeth, M. Mäki & T. Reunala: Density of γ/δ^+ T cells in the jejunal epithelium of patients with coeliac disease and dermatitis herpetiformis is increased with age 464

I. Buehring, B. Friedrich, J. Schaaf, H. Schimdt, P. Ahrens & S. Zielen: Chronic sinusitis refractory to standard management in patients with humoral immunodeficiencies 468

C. C. Anderson, R. Mukherjee, N. R. Stc. Sinclair & A. M. Jevnikar: Hypogammaglobulinaemia occurs in Fas-deficient MRL-*lpr* mice following deletion of MHC class II molecules 473

R. H. Scofield, F.-C. Zhang, B. T. Kurien & J. B. Harley: Anti-Ro fine specificity defined by multiple antigenic peptides identifies components of tertiary epitopes 480

Y. Cai, S. Kitajima, F. Etoh, S. Kinoshita, K. Okubo & N. Hamasaki: Autoantibody reactive with the human general transcription factor TFIIF in sera from patients with autoimmune disorders 488

E. H. Kemp, D. J. Gawkrodger, P. F. Watson & A. P. Weetman: Immunoprecipitation of melanogenic enzyme autoantigens with vitiligo sera: evidence for cross-reactive autoantibodies to tyrosinase and tyrosinase-related protein-2 (TRP-2) 495

L. E. Van den Hove, S. W. Van Gool, H. Van Poppel, L. Baert, L. Coorevits, B. Van Damme & J. L. Cueppens: Phenotype, cytokine production, and cytolytic capacity of fresh (uncultured) tumour-infiltrating T lymphocytes in human renal cell carcinoma 501

T. Sato, M. G. A. Van Dixhoorn, E. Heemskerk, L. A. Van Es & M. R. Daha: C1q, a subunit of the first component of complement, enhances antibody-mediated apoptosis of cultured rat glomerular mesangial cells 510

J. J. Timmerman, M. F. C. Beersma, D. J. Van Gijlswijk-janssen, L. A. Van Es, F. J. Van der Woude & M. R. Daha: Differential effects of cytomegalovirus infection on complement synthesis by human mesangial cells 518

I. Van der Ploeg, M. Jeddi Tehrani, G. Matuseviciene, C. F. Wahlgren, J. Fransson & A. Scheynius: IL-13 over-expression in skin is not confined to IgE-mediated skin inflammation 526

Å. Bengtsson, L. Holm, O. Bäck, J. Fransson & A. Scheynius: Elevated serum levels of soluble CD30 in patients with atopic dermatitis (AD) 533

H. Loutrari, A. Kokla, N. Trakas & S. J. Tzartos: Expression of human–*Torpedo* hybrid acetylcholine receptor (AChR) for analysing the subunit specificity of antibodies in sera from patients with myasthenia gravis (MG) 538

S. Komori, K. Kameda, K. Sakata, A. Hasegawa, H. Toji, Y. Tsuji, H. Shibahara, K. Koyama & S. Isojima: Characterization of fertilization-blocking monoclonal antibody 1G12 with human sperm-immobilizing activity 547

M. Takahashi, N. Ishimaru, K. Yanagi, N. Haneji, I. Saito & Y. Hayashi: High incidence of autoimmune dacryoadenitis in male non-obese diabetic (NOD) mice depending on sex steroid 555

F. Barrat, B. Lesourd, H.-J. Boulouis, D. Thibault, S. Vincent-Naulleau, B. Gjata, A. Louise, T. Neway & Ch. Pilet: Sex and parity modulate cytokine production during murine ageing 562

P. Victoratos, M. Yiangou, N. Avramidis & L. Hadjipetrou: Regulation of cytokine gene expression by adjuvants *in vivo* 569